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966002

**PRE-RENOVATION
INSPECTION REPORT**

Barclay Development
300 Barclay Street & 139 East
Oregon Street
Milwaukee, Wisconsin

August 3, 2016

PREPARED FOR:

Paul Keenan
Sherman Associates
233 Park Avenue South
Suite 201
Minneapolis, Minnesota

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KEY ENGINEERING GROUP, LTD.



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Certified Asbestos Inspector	AII-116960
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Kenneth W. Wein, CHMM
Principal

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ABBREVIATIONS OF TERMS

ACM	Asbestos Containing Material
AHERA	Asbestos Hazardous Emergency Response Act
ASTM	American Society for Testing and Materials
ATC	Assumed to Contain Asbestos
KEY	Key Engineering Group, Ltd.
LF	Lineal Feet
NA	Not Applicable
NESHAP	National Emission Standard for Hazardous Air Pollutants
NAD	No Asbestos Detected
PCM	Point Count Methodology
PLM	Polarized Light Microscopy
SF	Square Foot
SWF	Solid Waste Facility/Landfill
TSDF	Transporters, Storage and Disposal
TSI	Thermal System Insulation
WDNR	Wisconsin Department of Natural Resources
WI	Wisconsin

INTRODUCTION

Key Engineering Group, Ltd. (KEY) has completed this Pre-Renovation Inspection of the former industrial buildings located at 300 Barclay Street and 139 Oregon Street, Milwaukee, Wisconsin (hereafter referred to as the subject site). Four structures currently exist on the subject site:

- Building #11 is located on the 300 Barclay Street address.
- Building #33 is located on the north side of the 139 Oregon Street address.
- Building #34 is located in the middle of the 139 Oregon Street address.
- Building #35 is located on the south side of the 139 Oregon Street address and is *not* included in this pre-renovation assessment.

The inspection included assessment of asbestos containing building material (ACM) and surfaces containing lead paint. The inspection was conducted by KEY's Wisconsin Certified Asbestos Inspector and Lead Risk Assessor, Jason M. Kruchko. The asbestos inspection protocol was structured to identify ACM, including friable and category I & II non-friable asbestos. This is a requirement of both Wisconsin and Federal new emission source hazardous air pollutant rules.

Pre-renovation asbestos inspections are required by the United States Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) regulations in 40 CFR 61 and the Wisconsin Department of Natural Resources (WDNR) Control of Asbestos Emissions defined in Chapter NR 447. The owner of the subject property is required to perform a thorough asbestos inspection of the property structures prior to the commencement of the deconstruction activities.

BACKGROUND

All four structures were originally developed in the early 1900s as manufacturing facility. The property was later leased to several different industrial companies who made minor building modifications. All three of the structures assessed are scheduled to be gut-renovated for use as residential apartments.

ASBESTOS SAMPLE COLLECTION and ANALYSIS

KEY visually inspected the site structures and collected potential ACM on February 15th through 17th. Representative samples were collected from each homogeneous material or potential ACM with the exception of items listed in the Qualifications of this report. The samples were submitted under chain of custody procedures to Micro Analytical, Inc (Micro) in Milwaukee, Wisconsin for asbestos analysis. *Stop Positive* analysis procedures were used on samples taken from homogeneous areas. Micro is accredited by the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP), Laboratory Code Number 101247-0.

The samples were analyzed using Polarized Light Microscopy (PLM) with Dispersion Staining in accordance with EPA 600/M4-82-020. Plaster wall samples, which were determined to contain "Trace" or "< 1%" asbestos, were further analyzed using Point Count Method in accordance with EPA/600/R-93/116.

Typically, a report such as this is shared with the demolition or renovation contractor to include management of materials as part of their bid. It is ultimately the responsibility of the contractor and the building owner to notify the municipality and possibly the Wisconsin Department of Natural Resources and/or Environmental Protection Agency of the presence and removal of any hazardous building materials, prior to demolition.

SUMMARY of ASBESTOS LABORATORY RESULTS

Several general building materials were found to contain asbestos fibers in concentrations estimated to be greater than one percent by PLM analysis. The following list describes materials which were identified as ACM:

Building #11:

- **Glass Block Mortar** located on the first floor was found to be ACM.
- **Pipe Wrap** within the basement of the structure. Pipe wrap and insulated pipe elbows vary greatly within the basement of the structure. Very few existing pieces of pipe wrap appear to be newer fiberglass. Therefore, all pipe wrap and insulated pipe elbows should be considered ACM unless further testing is performed. KEY estimates that there is approximately 1,000 linear feet of piping throughout basement the structure.
- **Pipe Wrap** near the laboratory located on the east side of the third floor. Approximately 125 feet of ACM pipe wrap is present.
- **Window Glaze** found on steel window frames on all floors of the structure were found to contain less than 1% ACM.

Building #33:

- **Fire Proofing** found on structural supports on the second floor. The fire proofing extends through the floor and ceiling of the second floor. The fire proofing likely extends onto structural members on the 3rd floor which are covered by non-ACM gypsum board.
- **Floor Tile** on the 3rd floor is ACM. KEY estimates that there is approximately 5,000 square feet of floor tile.
- **Window Glaze** found on steel window frames on all floors of the structure were found to contain less than 1% ACM.
- **Wall Material** of the 2nd floor bathroom was found to contain less than 1% ACM.

Building #34:

- **Window Glaze** found on steel window frames on all floors of the structure were found to contain less than 1% ACM.

Several buildings materials, of all three buildings, have been assumed to contain asbestos and were not sampled during this assessment:

- **Roofing components** - Due to the age and construction of the roofs it has been assumed by KEY and Sherman Associates that a significant amount of roofing material, including flashing, tar and linings likely contain asbestos. Therefore, all roofing materials should be considered ACM.

Tables 1 through 3 of this report includes a summary of the full laboratory reports as well as an inventory of collected building samples. A copy of the laboratory report is included as Appendix 2.

LEAD PAINT ANALYSIS

KEY evaluated painted surfaces within the renovation area. The evaluation was conducted with an Innov-X-Systems X-Ray Florescence (XRF) unit, model # α -4000. XRF analysis indicated which building components had painted surfaces with paint with lead concentrations equal to or greater than 0.7 mg/cm².

- **All painted surfaces of Buildings #11, 33 and 34 should be considered lead based paint.** Several layers of paint existed on surfaces of the building. It is likely that older or original paint used at the facility contained lead.

EXCLUSION

The painted gypsum board walls of the third floor of Building #33 were not surfaced with paint containing more than 0.7 mg/cm².

QUALIFICATIONS

This Pre-Demolition Inspection Report is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the subject site, and recognizes reasonable limits of time and cost.

The Pre-Renovation Inspection was performed using the degree of care and skill ordinarily exercised under similar circumstances, by environmental consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the findings, opinions and conclusions included in this report.

The findings of this Pre-Renovation Inspection, to the best of KEY's knowledge, are valid as of the date of this review. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate regulations and standards may occur, whether they result from legislation, from the broadening of knowledge or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control. The building condition assessment reflects conditions at the date and time of the inspection. Material conditions may change due to age, use, maintenance and other building conditions. It is recommended that the ACM described within this report be assessed immediately prior to deconstruction or demolition activities.

Material samples were collected from reasonably accessible areas only. Destructive sampling methods were used to identify additional materials not readily visible. During abatement, deconstruction, demolition or further investigations, a potential exists for encountering asbestos and /or other hazardous materials not previously identified. Estimated quantities of ACM should be considered a preliminary estimate of square footage, linear footage, or individual units for each identified ACM. It is recommended that quantities of ACM be field verified by prospective abatement contractors.

This Pre-Renovation Inspection Report was performed for Sherman Associates. Reliance on *Pre-Renovation Inspection Report* by anyone other than Sherman Associates shall be at the sole risk of the user.

This inspection did not included sampling of rock, soil, groundwater, surface water, air or one site substances or materials. Only building materials were sampled and analyzed for the presence of asbestos. It is therefore, not possible to confirm the presence or absence of toxic or hazardous substances, wastes or materials in the environment associated with the subject property, with the exception of asbestos. Copies of all the Asbestos Inspector Certification cards are included as Appendix 1.

The following are project specific limitations encountered during this Pre-Demolition Inspection:

- Additional materials may be present within structural wall voids. All materials discovered within wall voids should be sampled and analyzed for asbestos content or be considered ACM.
- KEY was unable to sample the exterior basement windows located in Building #11.
- KEY was only able to evaluate the elevator shafts from the elevator doors of each building. The elevator shafts were not entered due to safety concerns. No materials were observed lining the elevator shafts. Any materials encountered in the elevator shafts should be sampled and analyzed for asbestos content or be considered ACM.

Table 1

TABLE 1
SUMMARY OF ASBESTOS RESULTS

2505019
Barclay
300 South Barclay
Milwaukee, Wisconsin

Sample ID	Room #/Location	Material Description	Analysis	Sq Ft/Linear Ft
First Floor				
1SESWM	Southeast Stairs	Wall Material	None Detected	—
1PW2	Open Area	Pipe Wrap	None Detected	—
1PW1	Open Area	Pipe Wrap	None Detected	—
1B1	Open Area	Brick	None Detected	—
1M1	Open Area	Mortar	None Detected	—
1M2	Open Area	Mortar	None Detected	—
1WG1	Windows	Window Glaze	None Detected	—
1WG2	Windows	Window Glaze	None Detected	—
1SESWG	Windows	Window Glaze	<0.25% Chrysotile*	—
10WM	Office	Wall Material	None Detected	—
10FT	Office	Floor Tile	None Detected	—
10FT II	Office	Floor Tile	None Detected	—
1NESWM	Northeast Stairs	Wall Material	None Detected	—
1BRWM	Rest Room	Wall Material	None Detected	—
1BRCT	Rest Room	Ceiling Tile	None Detected	—
1GBM	Glass Block Windows	Glass Block Mortar	2.25% Chrysotile*	All Glass Block Windows
Second Floor				
20PW	North Office	Pipe Wrap	None Detected	—
2FT1	Offices	Floor Tile	None Detected	—
2FT1 II	Offices	Tile Mastic	None Detected	—
2FT2	Offices	Floor Tile	None Detected	—
2FT2 II	Offices	Tile Mastic	None Detected	—
2FT3	Offices	Floor Tile	None Detected	—
2FT4	Offices	Floor Tile	None Detected	—
2FT4 II	Offices	Tile Mastic	None Detected	—
2FT4 III	Offices	Tile Mastic	None Detected	—
2FT5	Offices	Floor Tile	None Detected	—
2FT5 II	Offices	Tile Mastic	None Detected	—
2CT1	Offices	Ceiling Tile	None Detected	—
2CT2	Offices	Ceiling Tile	None Detected	—
2CT3	Offices	Ceiling Tile	None Detected	—
2LF	Ladies Room	Flooring	None Detected	—
2LCT	Ladies Room	Ceiling Tile	None Detected	—
2LWM	Ladies Room	Wall Material	None Detected	—
2WMN01	Offices	Wall Material	None Detected	—
2WMN02	Offices	Wall Material	None Detected	—
2WMN03	Offices	Wall Material	None Detected	—
2WMN04	Offices	Wall Material	None Detected	—
2WMN05	Offices	Wall Material	None Detected	—
2WMS01	Offices	Wall Material	None Detected	—
2WMS02	Offices	Wall Material	None Detected	—
2WMS03	Offices	Wall Material	None Detected	—
2WMS04	Offices	Wall Material	None Detected	—
2WMS05	Offices	Wall Material	None Detected	—
2BB01	Offices	Baseboard	None Detected	—
2BB01 II	Offices	Mastic	None Detected	—
2BB02	Offices	Baseboard	None Detected	—
2BB02 II	Offices	Mastic	None Detected	—
2BB03	Offices	Baseboard	None Detected	—
2BB03 II	Offices	Mastic	None Detected	—
2EF01	Production Area	Epoxy Floor	None Detected	—
2EF01 II	Production Area	Epoxy Floor	None Detected	—
2EF02	Production Area	Epoxy Floor	None Detected	—
2EF02 II	Production Area	Epoxy Floor	None Detected	—
Third Floor				
3SWDW	Southwest Coner	Duct Wrap	None Detected	—
3SWDW II	Southwest Coner	Duct Wrap	None Detected	—
3MFT	Men's Room	Floor Tile	None Detected	—
3MFT II	Men's Room	Tile Mastic	None Detected	—
3MWT	Men's Room	Wall Tile	None Detected	—
3MBT	Men's Room	Base Tile	None Detected	—
3MCT	Men's Room	Ceiling Tile	None Detected	—
3MPW1	Men's Room	Pipe Wrap	None Detected	—
3MPW2	Men's Room	Pipe Wrap	None Detected	—
3SFT	Stairway	Floor Tile	None Detected	—
3SFT II	Stairway	Tile Mastic	None Detected	—
3SWM	Stairway	Wall Material	None Detected	—
3LRFT1	Locker Room	Floor Tile	None Detected	—
3LRFT1 II	Locker Room	Tile Mastic	None Detected	—
3LRFT2	Locker Room	Floor Tile	None Detected	—
3LRFT2 II	Locker Room	Tile Mastic	None Detected	—
3LRFT3	Locker Room	Floor Tile	None Detected	—
3LRFT3 II	Locker Room	Tile Mastic	None Detected	—
3LRSFT	Locker Room	Floor Tile	None Detected	—
3LRSFT II	Locker Room	Tile Mastic	None Detected	—
3LRSWT	Locker Room	Wall Tile	None Detected	—
3LRWM1	Locker Room	Wall Material	None Detected	—
3LRWM2	Locker Room	Wall Material	None Detected	—
3WRWM	Washroom	Wall Material	None Detected	—
3MR01	Mill Room	Floor Debris	None Detected	—
3WG01	Windows	Window Glaze	<0.25% Chrysotile*	—
3WG02	Windows	Window Glaze	None Detected	—
3WG03	Windows	Window Glaze	None Detected	—
3WG04	Windows	Window Glaze	None Detected	—
3WG05	Windows	Window Glaze	<0.25% Chrysotile*	—
3WG06	Windows	Window Glaze	<0.25% Chrysotile*	—
3WG07	Windows	Window Glaze	<0.25% Chrysotile*	—
3SE01	Small Room	Composite Wall	None Detected	—
3LBPW01	Lab Area	Pipe Wrap	None Detected	125 LF
3LBPW02	Lab Area	Pipe Wrap	None Detected	
3LBPW02 II	Lab Area	Pipe Wrap	15% Chrysotile 10% Amosite	
3LBPW03	Lab Area	Pipe Wrap	5% Chrysotile 15% Amosite	
3LBPWM	Lab Area	Wall Material	None Detected	—
Fourth Floor				
4PW03	Center of Floor	Pipe Wrap	None Detected	—
4PW01	Center of Floor	Pipe Wrap	None Detected	—
4PW02	Center of Floor	Pipe Wrap	None Detected	—
4BRWM	Rest Room	Wall Material	None Detected	—
4BRCT	Rest Room	Ceiling Tile	None Detected	—
4SSWM	South Stairs	Wall Material	None Detected	—
Fifth Floor				
5BRWM	Rest Room	Wall Material	None Detected	—
5P01	Pits	Black Material	None Detected	—
5P02	Pits	Black Material	None Detected	—
5P03	Pits	Black Material	None Detected	—
5P04	Pits	Black Material	None Detected	—
5P05	Pits	Black Material	None Detected	—
RDC	Roof	Door Caulk	2% Chrysotile	—
5PWG01	Windows	Window Glaze	None Detected	—
5PWG02	Windows	Window Glaze	None Detected	—
5PWG03	Windows	Window Glaze	None Detected	—
5PWG04	Windows	Window Glaze	None Detected	—
5PWG05	Windows	Window Glaze	None Detected	—
5PWG06	Windows	Window Glaze	None Detected	—
Basement				
QWT01	Water Treatment	Liner	None Detected	—
OWG01	Windows	Window Glaze	0.25% Chrysotile*	—
OWG02	Windows	Window Glaze	0.5% Chrysotile*	—
OWG03	Windows	Window Glaze	<0.25% Chrysotile*	—
OPW01	Throughout	Pipe Wrap	None Detected	1,000 LF
OPW02	Throughout	Pipe Wrap	2% Chrysotile	
OPW03	Throughout	Pipe Wrap	None Detected	
OPW04	Throughout	Pipe Wrap	15% Chrysotile	
OPW05	Throughout	Pipe Wrap	5% Chrysotile	
OPE1	Throughout	Pipe Elbow	75% Chrystile	

Table 2

TABLE 2

SUMMARY OF ASBESTOS RESULTS

2505019
Barclay
300 South Barclay
Milwaukee, Wisconsin

Sample ID	Room #/Location	Material Description	Analysis	Sq Ft/Linear Ft
First Floor				
3WM1	Throughout	Wall Material	None Detected	—
3WM2	Throughout	Wall Material	None Detected	—
3WM3	Throughout	Wall Material	None Detected	—
3WM4	Throughout	Wall Material	None Detected	—
3WM5	Throughout	Wall Material	None Detected	—
3WM6	Throughout	Wall Material	None Detected	—
3WM7	Throughout	Wall Material	None Detected	—
3FT1	Throughout	Floor Tile	<1% Chrysotile*	5,000 SF
3FT1 II	Throughout	Tile Mastic	None Detected	
3FT2	Throughout	Floor Tile	None Detected	
3FT2 II	Throughout	Tile Mastic	None Detected	
3FT3	Throughout	Floor Tile	None Detected	
3FT3 II	Throughout	Tile Mastic	None Detected	
3FT4	Throughout	Floor Tile	2% Chrysotile	
3FT4 II	Throughout	Tile Mastic	None Detected	
3FT5	Throughout	Floor Tile	None Detected	
3FT5 II	Throughout	Tile Mastic	None Detected	
3FT6	Throughout	Floor Tile	None Detected	
3FT6 II	Throughout	Tile Mastic	None Detected	
3FT7	Throughout	Floor Tile	None Detected	
3FT7 II	Throughout	Tile Mastic	None Detected	
3DW	Throughout	Duct Wrap	None Detected	—
3DT	Throughout	Duct Wrap Tape	None Detected	—
3NEWG	Northeast Stairs	Window Glaze	None Detected	—
3NEWG II	Northeast Stairs	Window Glaze	None Detected	—
3LC	Throughout	Leveling Compound - Entire Lab	None Detected	—
3CT	Throughout	Ceiling Tile	None Detected	—
Second Floor				
2WG1	Windows	Window Glaze	None Detected	—
2WG2	Windows	Window Glaze	None Detected	—
2WG3	Windows	Window Glaze	None Detected	—
2WG4	Windows	Window Glaze	None Detected	—
2WG5	Windows	Window Glaze	None Detected	—
2WG6	Windows	Window Glaze	None Detected	—
2WG7	Windows	Window Glaze	<1% Chrysotile*	—
2PW	Throughout	Pipe Wrap	None Detected	—
2BRWM	Rest Room	Plaster Wall Material	<1% Chrysotile*	—
2BRWM II	Rest Room	Plaster Wall Material	None Detected	—
2WS1	Windows	Window Sill	None Detected	—
2WS2	Windows	Window Sill	None Detected	—
2WS3	Windows	Window Sill	None Detected	—
2BFW	Column	Fire Wrap	20% Chrysotile	Unknown - Large portions behind walls and covering
2CW	Column	Fire Wrap	None Detected	
2CFW1	Column	Fire Wrap	7% Chrysotile 5% Amosite	
2CFW2	Column	Fire Wrap	20% Chrysotile	
2NESWG	Windows	Window Glaze	None Detected	—
2NESWG II	Windows	Window Glaze	None Detected	—
First Floor				
1NESWG	Windows	Window Glaze	None Detected	—
1NESWG II	Windows	Window Glaze	None Detected	—
1WG1	Windows	Window Glaze	None Detected	—
1WG2	Windows	Window Glaze	None Detected	—
1WG3	Windows	Window Glaze	None Detected	—
1WG4	Windows	Window Glaze	None Detected	—
1WG5	Windows	Window Glaze	<1% Chrysotile*	—
1WG6	Windows	Window Glaze	None Detected	—
1WG7	Windows	Window Glaze	None Detected	—
1WS1	Windows	Window Sill	None Detected	—
1WS2	Windows	Window Sill	None Detected	—
1WS3	Windows	Window Sill	None Detected	—
1WS4	Windows	Window Sill	None Detected	—
BR01	Rest Room	Ceiling Tar Paper	None Detected	—
BRPW	Rest Room	Pipe Wrap	None Detected	—
1LPW	North Wall	Large Pipe Wrap	None Detected	—

Notes: |
* Point Count Analysis

Table 3

TABLE 3
SUMMARY OF ASBESTOS RESULTS

2505019
Barclay
300 South Barclay
Milwaukee, Wisconsin

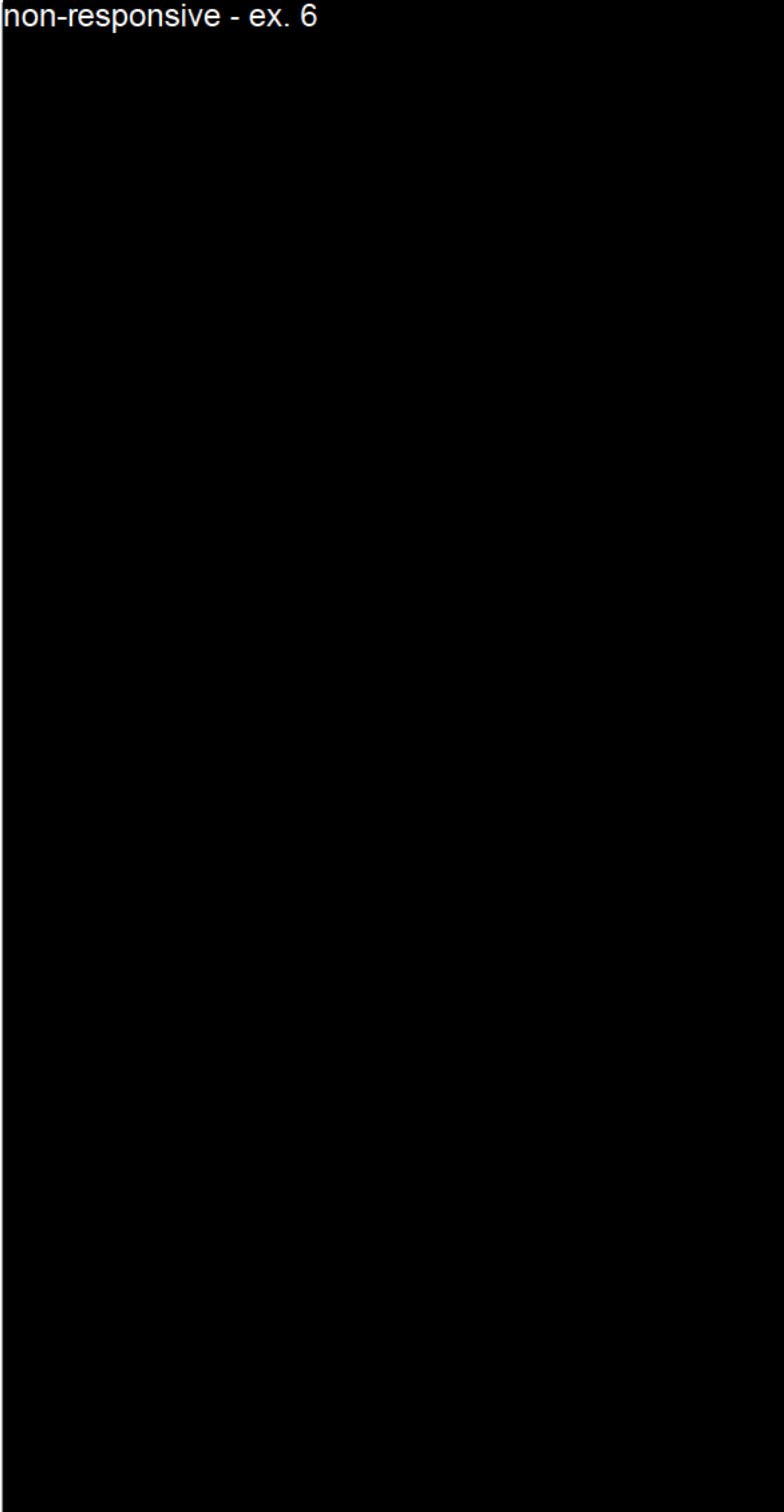
Sample ID	Room #/Location	Material Description	Analysis	Sq Ft/Linear Ft
3WG1	Windows	Window Glaze	<0.25% Chrysotile*	—
3WG2	Windows	Window Glaze	None Detected	—
3WG3	Windows	Window Glaze	None Detected	—
3WG4	Windows	Window Glaze	None Detected	—
3WG5	Windows	Window Sill	<0.25% Chrysotile*	—
3WS01	Windows	Window Sill	None Detected	—
3WS02	Windows	Window Sill	None Detected	—
3TP	North side under Wood	Tar Paper	None Detected	—
2WG1	Windows	Window Glaze	None Detected	—
2WG2	Windows	Window Glaze	None Detected	—
2WG3	Windows	Window Glaze	None Detected	—
2WG4	Windows	Window Glaze	None Detected	—
2WG5	Windows	Window Glaze	None Detected	—
2WS1	Windows	Window Sill	None Detected	—
2WS2	Windows	Window Sill	None Detected	—
1WG1	Windows	Window Glaze	None Detected	—
1WG2	Windows	Window Glaze	None Detected	—
1WG3	Windows	Window Glaze	None Detected	—
1WG4	Windows	Window Glaze	0.25% Chrysotile*	—
1WG5	Windows	Window Glaze	None Detected	—
1WS1	Windows	Window Glaze	None Detected	—
1PW	Main Area	Pipe Wrap	None Detected	—
2FT	Office	Floor Tile	None Detected	—
2FT II	Office	Tile Mastic	None Detected	—

Notes:

* Point Count Analysis

Appendix 1

non-responsive - ex. 6



Appendix 2

MICRO ANALYTICAL, INC.

11521 West North Avenue
Milwaukee, WI 53226
(800) 771-9820 (414) 771-0855
Fax: (414) 771-6570

BULK ASBESTOS ANALYTICAL REPORT
Utilizing PLM and Dispersion Stain Technique

Customer: KEY Engineering Group LTD
735 North Water Street
Suite 150
Milwaukee , WI 53202

Report #: 143678
Received: 15-Feb-2016
Analyzed: 22-Feb-2016

Job ID: 2505019 Bldg 11

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
1PW2	None Detected	20% Fibrous Glass 15% Cellulose	65%	Gray	Compact
1PW1	None Detected	10% Fibrous Glass 35% Cellulose	55%	Multi- Colored	Compressed
1B1	None Detected		100%	Tan	Compact
1M1	None Detected		100%	Gray	Compact
1M2	None Detected		100%	Gray	Compact
1WG1	None Detected		100%	Gray	Compact
1WG2	None Detected		100%	Off-White	Resinous
1SESWG	<1% Chrysotile		100%	Gray	Compact
10FT	None Detected		100%	Multi- Colored	Floortile
10FT II	None Detected		100%	Tan	Mastic
1NESWM	None Detected		100%	Gray	Compact
1BRWM	None Detected	10% Cellulose	90%	Gray	Compact
1BRCT	None Detected	<1% Fibrous Glass 10% Cellulose	90%	Tan	Compact
1GBM	2% Chrysotile		98%	Beige	Compact
2OPW	None Detected	10% Fibrous Glass 35% Cellulose	55%	Multi- Colored	Compressed
2FT1	None Detected		100%	Multi- Colored	Floortile
2FT1 II	None Detected		100%	Tan	Mastic

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
2FT2	None Detected		100%	Multi- Colored	Floortile
2FT2 II	None Detected		100%	Tan	Mastic
2FT3	None Detected		100%	Multi- Colored	Floortile
2FT4	None Detected		100%	Multi- Colored	Floortile
2FT4 II	None Detected		100%	Tan	Mastic
2FT4 III	None Detected		100%	Gray	Compact
2FT5	None Detected		100%	Brown	Floortile
2FT5 II	None Detected		100%	Tan	Mastic
2CT1	None Detected	35% Fibrous Glass 35% Cellulose	30%	Gray	Compressed
2CT2	None Detected	35% Fibrous Glass 35% Cellulose	30%	Gray	Compressed
2CT3	None Detected	20% Fibrous Glass 50% Cellulose	30%	Gray	Compressed
2LF	None Detected	10% Cellulose	90%	Multi- Colored	Linoleum
2LCT	None Detected	<1% Fibrous Glass 25% Cellulose	75%	Off-White	Compact
2LWM	None Detected		100%	Off-White	Compact
2WMN01	None Detected	<1% Fibrous Glass 3% Cellulose	97%	Gray	Compact
2WMN02	None Detected		100%	Gray	Compact
2WMN03	None Detected		100%	Gray	Compact
2WMN04	None Detected		100%	Gray	Compact
2WMN05	None Detected	<1% Hair	100%	Multi- Colored	Compact
2WMS01	None Detected	<1% Fibrous Glass 7% Cellulose	93%	Off-White	Compact
2WMS02	None Detected	<1% Fibrous Glass 15% Cellulose	85%	Off-White	Compact
2WMS03	None Detected	<1% Fibrous Glass 3% Cellulose	97%	Multi- Colored	Compact
2WMS04	None Detected	<1% Fibrous Glass 10% Cellulose	90%	Multi- Colored	Compact

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
2WMS05	None Detected	<1% Fibrous Glass 10% Cellulose	90%	Multi- Colored	Compact
2BB01	None Detected		100%	Brown	Resinous
2BB01 II	None Detected		100%	Off-White	Mastic
2BB02	None Detected		100%	Brown	Resinous
2BB02 II	None Detected		100%	Off-White	Mastic
2BB03	None Detected		100%	Brown	Resinous
2BB03 II	None Detected		100%	Off-White	Mastic
2EF01	None Detected		100%	Off-White	Resinous
2EF01 II	None Detected		100%	Tan	Mastic
2EF02	None Detected		100%	Off-White	Resinous
2EF02 II	None Detected		100%	Tan	Mastic
3MFT	None Detected		100%	Multi- Colored	Floortile
3MFT II	None Detected		100%	Tan	Mastic
3MWT	None Detected		100%	Off-White	Ceramic Tile
3MBT	None Detected		100%	Off-White	Ceramic Tile
3MCT	None Detected	<1% Fibrous Glass 20% Cellulose	80%	Off-White	Compact
3MPW1	None Detected	10% Fibrous Glass 40% Cellulose	50%	Multi- Colored	Compressed
3MPW2	None Detected	30% Fibrous Glass 30% Cellulose	40%	Multi- Colored	Compressed
3SFT	None Detected		100%	Multi- Colored	Floortile
3SFT II	None Detected		100%	Tan	Mastic
3SWM	None Detected	10% Cellulose	90%	Multi- Colored	Compact
3LRFT1	None Detected		100%	Blue	Floortile
3LRFT1 II	None Detected		100%	Tan	Mastic
3LRFT2	None Detected		100%	Blue	Floortile
3LRFT2 II	None Detected		100%	Tan	Mastic
3LRFT3	None Detected		100%	Blue	Floortile
3LRFT3 II	None Detected		100%	Tan	Mastic
3LRSFT	None Detected		100%	Brown	Ceramic Tile
3LRSFT II	None Detected		100%	Gray	Compact

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
3LRSWT	None Detected		100%	Off-White	Ceramic Tile
3LRWM1	None Detected		100%	Gray	Compact
3LRWM2	None Detected		100%	Gray	Compact
3WRWM	None Detected	10% Cellulose	90%	Off-White	Compact
3MR01	None Detected	3% Cellulose	97%	Off-White	Compact
3WG01	<1% Chrysotile		100%	Tan	Compact
3WG02	None Detected		100%	Off-White	Compact
3WG03	None Detected		100%	Beige	Compact
3WG04	None Detected		100%	Gray	Compact
3WG05	<1% Chrysotile		100%	Gray	Compact
3WG06	<1% Chrysotile		100%	Gray	Compact
3WG07	<1% Chrysotile		100%	Gray	Compact
3SE01	None Detected	85% Cellulose	15%	Tan	Compact
3LBPW01	None Detected	85% Cellulose	15%	Multi- Colored	Compressed
3LBPW02	None Detected	95% Cellulose	5%	White	Woven
3LBPW02 II	15% Chrysotile 10% Amosite		75%	White	Associated
3LBPW03	5% Chrysotile 15% Amosite		80%	Off-White	Compressed
3LBWM	None Detected	2% Cellulose	98%	White	Compact
4PW01	None Detected	60% Cellulose	40%	Multi- Colored	Compressed
4PW02	None Detected	60% Cellulose	40%	Multi- Colored	Compressed
4BRWM	None Detected	<1% Fibrous Glass 10% Cellulose	90%	White	Compact
4BRCT	None Detected	40% Cellulose	60%	White	Compact
4SSWM	None Detected		100%	Off-White	Compact
5BRWM	None Detected		100%	White	Loose
5P01	None Detected	10% Cellulose	90%	Black	Resinous
5P02	None Detected	<1% Cellulose	100%	Black	Resinous
5P03	None Detected		100%	Black	Resinous
5P04	None Detected		100%	Black	Resinous
5P05	None Detected		100%	Black	Resinous
RDC	2% Chrysotile		98%	Off-White	Compact

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
5PWG01	None Detected	2% Silicate	98%	Off-White	Compact
5PWG02	None Detected	2% Silicate	98%	Off-White	Compact
5PWG04	None Detected	2% Silicate	98%	Off-White	Compact
5PWG05	None Detected	2% Silicate	98%	Off-White	Compact
5PWG06	None Detected	2% Silicate	98%	Off-White	Compact
OWT01	None Detected		100%	Brown	Resinous
OWG01	<1% Chrysotile		100%	Off-White	Compact
OWG02	<1% Chrysotile		100%	Beige	Compact
OWG03	<1% Chrysotile		100%	Off-White	Compact
OPW01	None Detected	90% Cellulose	10%	Off-White	Compressed
OPW02	2% Chrysotile	88% Cellulose	10%	Brown	Compressed
OPW03	None Detected	95% Cellulose	5%	Tan	Compressed
OPW04	15% Chrysotile	75% Cellulose	10%	Tan	Compressed
OPW05	5% Chrysotile	15% Fibrous Glass 15% Cellulose	65%	Brown	Associated
OPE1	75% Chrysotile	10% Fibrous Glass	15%	Off-White	Compressed
3SWDW	None Detected		100%	Brown	Ceramic Tile
3SWDW II	None Detected		100%	Brown	Mastic
4PW03	None Detected	80% Cellulose	20%	Multi- Colored	Compressed
1SESWM	None Detected		100%	Off-White	Compact
10WM	None Detected		100%	White	Compact

Analyzed By: Kevin Hachey

Test method: EPA/600/R-93/116 and EPA/600/M4-82-020. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of MICRO ANALYTICAL, INC.

107

Micro Analytical, Inc.
11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: 2505019 Bldg 11

Job ID: Key Engineering

#Samples: 90

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
1PW2	2/15-16	
1PW1		
1B1		
1M1		
1M2		
1WG1		
1WG2		
1SES WG		
1001		
10 FT		
1NES WM		
1BR WM		
1BR CT		
1GBM		
2 O W PW	2/15-16	

2/15/16

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2/16/16

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Relinquished by Date/Time

Received by Date/Time

Email: jkruchko@keyengineering.com Phone: _____

Fax: _____ Notes: _____

28 7

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Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

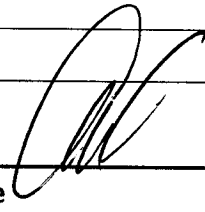
Client: Key Engineering

Job ID: 2505019 Bldg 11

#Samples: 105

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
2FT 1	2/15-16	
2FT 2		
2FT 3		
2FT 4		
2FT 5		
2CT 1		
2CT 2		
2CT 3		
2CT 4 2LIF		
2CT 5 2LCT		
2LWM		
2WMN 01		
2WMN 02		
2WMN 03		
2WMN 04	2/5-16	

 2/16/16

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Client: Key Engineering

Job ID: 2505019 Bldg 11

#Samples: 105 Type: PCM PLM ~~LEAD~~ LEAD (circle one)

Sample #	Date Collected	Location/Remarks
2UMN05	2/15-16	.
2UMS01		
2UMS02		
2UMS03		
2UMS04		
2UMS05		
2BB01		
2BB02		
2BB03		
2EF01		
2EF02		
3MFT		
3MWT		
3MBT		
3MCT	2/15-16	

J. M. C. 2/11/16
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4087

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P (414) 771-0855 F (414) 771-6570

Client: Key Engineering

Job ID: 2505019 Bldg 11

#Samples: 105 Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
3m PW1	2/15-16	
3m PW2		
3S FT		
3S WM		
3LR FT1		
3LR FT2		
3LR FT3		
3LR SFT		
3LR SWT		
3LR WM1		
3LR WM2		
3WR WM		
3MR 01		
3WGO1		Stop Position A
3WGO2	2/15-16	↓ ↓ A

J. N. E. C. O. 2/16 [Signature] 2/16/16

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586

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11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: Key Engineering

Job ID: 2503019 2/11

#Samples: 90

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
3WG 03	2/15-16	Stop Positive A
3WG 04		A
3WG 05		A
3WG 06		A
3WG 07		Stop Positive A
3SE 01		
3LB PW 01		Stop Positive B
3LB PW 02		B
3LB PW 03		B
• 3PW 01		B
• 3PW 02		Stop Positive B
3LB WM		
4PW 01		
4PW 02		
4BR WM	2/15-16	

J. M. L. C. 2/16/16

[Signature] 2/16/16

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Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: Key Engineering

Job ID: 2505019 Bldg 11

#Samples: 90

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
4 BR CT	2/15-16	
4 BR 4SSWM		
5 BR WM		
SP01		Stop Positive C
SP02		↓ C
SP03		↓ C
SP04		↓ C
SP05		Stop Positive C
R DC		
SPWG01		Stop Positive D
SPWG02		↓ D
SPWG03	V	↓ D
SPWG04		↓ D
SPWG05		↓ D
SPWG06	2/15-16	Stop Positive D

4/16/16 2/16/16
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7007

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 Wauwatosa, WI 53226
 P (414) 771-0855 F (414) 771-6570

Client: Key Engineering

Job ID: 2505019 Bldg 11

#Samples: 105 Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
OWT 01	2/15	
OWG 01		
OWG 02		
OWG 03		
OPW 01		
OPW 02		
OPW 03		
OPW 04		
OPW 05		
• OPW 06		<u>Extra's Received</u>
• OPW 07		35W DW
• OPW 08		4PW 03
• OPW 09		1SES Wm
• OPW 10		10 Wm
• OBE 1	2/15	• = missing samples

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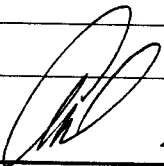
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 2/16/16

MICRO ANALYTICAL, INC.

11521 West North Avenue
Milwaukee, WI 53226
(800) 771-9820 (414) 771-0855
Fax: (414) 771-6570

BULK ASBESTOS ANALYTICAL REPORT
Utilizing PLM and Dispersion Stain Technique

Customer: KEY Engineering Group LTD
735 North Water Street
Suite 150
Milwaukee , WI 53202

Report #: 143745
Received: 23-Feb-2016
Analyzed: 01-Mar-2016

Job ID: 2505019-33

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
3WM1	None Detected	2% Fibrous Glass <1% Cellulose	98%	Off-White	Compact
3WM2	None Detected	2% Fibrous Glass <1% Cellulose	98%	Off-White	Compact
3WM3	None Detected	2% Fibrous Glass 5% Cellulose	93%	Off-White	Compact
3WM4	None Detected	<1% Fibrous Glass 10% Cellulose	90%	Off-White	Compact
3WM5	None Detected	2% Fibrous Glass <1% Cellulose	98%	Off-White	Compact
3WM6	None Detected	2% Fibrous Glass <1% Cellulose	98%	Off-White	Compact
3WM7	None Detected	<1% Fibrous Glass 10% Cellulose	90%	Off-White	Compact
3FT1	None Detected		100%	Tan	Floortile
3FT1 II	None Detected		100%	Tan	Mastic
3FT2	None Detected		100%	Multi- Colored	Floortile
3FT2 II	None Detected		100%	Tan	Mastic
3FT3	None Detected		100%	Multi- Colored	Floortile
3FT3 II	None Detected		100%	Tan	Mastic
3FT4	None Detected		100%	Multi- Colored	Floortile
3FT4 II	None Detected		100%	Tan	Mastic

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
3FT5	None Detected		100%	Multi- Colored	Floortile
3FT5 II	None Detected		100%	Tan	Mastic
3FT6	None Detected		100%	Multi- Colored	Floortile
3FT6 II	None Detected		100%	Tan	Mastic
3FT7	None Detected		100%	Multi- Colored	Floortile
3FT7 II	None Detected		100%	Tan	Mastic
3DW	None Detected	10% Fibrous Glass 35% Cellulose	55%	Multi- Colored	Compressed
3DT	None Detected	50% Fibrous Glass	50%	Tan	Woven
3NEWG	None Detected	5% Synthetic Fiber	95%	Tan	Resinous
3NEWG II	None Detected		100%	Gray	Compact
2WG1	None Detected		100%	Tan	Compact
2WG2	None Detected		100%	Tan	Compact
2WG3	None Detected		100%	Tan	Compact
2WG4	None Detected		100%	Tan	Compact
2WG5	None Detected		100%	Tan	Compact
2WG6	None Detected		100%	Gray	Compact
2WG7	<1% Chrysotile		100%	Gray	Compact
2PW	None Detected	10% Fibrous Glass 35% Cellulose	55%	Multi- Colored	Compressed
2BRWM	<1% Chrysotile		100%	White	Compact
2BRWM II	None Detected		100%	Gray	Compact
2WS1	None Detected		100%	Gray	Compact
2WS2	None Detected		100%	Multi- Colored	Resinous
2WS3	None Detected		100%	Gray	Compact
2BFW	20% Chrysotile		80%	Gray	Compact
2CW	None Detected	60% Fibrous Glass	40%	Off-White	Woven
2CFW1	7% Chrysotile 5% Amosite		88%	Tan	Compact
2CFW2	20% Chrysotile		80%	Gray	Compact
2NESWG	None Detected	5% Synthetic Fiber	95%	Tan	Resinous
2NESWG II	None Detected		100%	Tan	Compact

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
1NESWG	None Detected	5% Synthetic Fiber	95%	Tan	Resinous
1NESWG II	None Detected		100%	Tan	Compact
1WG1	None Detected		100%	Off-White	Compact
1WG2	None Detected		100%	Off-White	Compact
1WG3	None Detected		100%	Tan	Compact
1WG4	None Detected		100%	Tan	Compact
1WG5	<1% Chrysotile		100%	Gray	Compact
1WG6	None Detected		100%	Tan	Compact
1WG7	None Detected		100%	Tan	Compact
1WS1	None Detected		100%	Gray	Compact
1WS2	None Detected		100%	Multi- Colored	Compact
1WS3	None Detected		100%	Gray	Compact
1WS4	None Detected		100%	Gray	Compact
BR01	None Detected	50% Cellulose	50%	Black	Compressed
BRPW	None Detected	10% Fibrous Glass 45% Cellulose	45%	Multi- Colored	Compressed
1LPW	None Detected	10% Fibrous Glass 45% Cellulose	45%	Multi- Colored	Compressed
3CT	None Detected	35% Fibrous Glass 35% Cellulose	30%	Gray	Compressed

Analyzed By: Kevin Hachey

Test method: EPA/600/R-93/116 and EPA/600/M4-82-020. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of MICRO ANALYTICAL, INC.

1584

Micro Analytical, Inc.
11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: KEY Engineering

Job ID: 250509 - 33

#Samples: 49

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
3WM1	2/17/2016	Bldg 33 Wall Material
3WM2		Bldg 33 Wall Material
3WM3		Bldg 33 Wall Material
3WM4		Bldg 33 Wall Material
3WM5		Bldg 33 Wall Material
3WM6		Bldg 33 Wall Material
3WM7		Bldg 33 Wall Material
3FT1		Bldg 33 Floor Tile
3FT2		Bldg 33 Floor Tile
3FT3		Bldg 33 Floor Tile
3FT4		Bldg 33 Floor Tile
3FT5		Bldg 33 Floor Tile
3FT6		Bldg 33 Floor Tile
3FT7		Bldg 33 Floor Tile
3DW		Bldg 33 Duct Wrap

[Signature] 2/19/2016/1300
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Received by Date/Time

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289

Micro Analytical, Inc.
11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: KEY Engineering

Job ID: 2505019

#Samples: 49

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
3DT	2/17/2016	Bldg 33 Drain Tape
3NEWG		Bldg 33 Northeast stairwell Window Glaze
2WG1		Bldg 33 Window Glaze
2WG2		Bldg 33 Window Glaze
2WG3		Bldg 33 Window Glaze
2WG4		Bldg 33 Window Glaze
2WG5		Bldg 33 Window Glaze
2WG6		Bldg 33 Window Glaze
2WG7		Bldg 33 Window Glaze
2PW		Bldg 33 Pipe Wrap
2BRWM		Bldg 33 Bathroom Wall material
2WS1		Bldg 33 Window Sill
2WS2		Bldg 33 Window Sill
2WS3		Bldg 33 Window Sill
2BFW		Bldg 33 Beam fire wrap

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329

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11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: KEY Engineering

Job ID: 2505019 - 33

#Samples: 49

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
2CW	2/17/2016	Bldg 33 Column Wrap Tape
2CFW1		Bldg 33 Column Fire Wrap
2CFW2		Bldg 33 Column Fire Wrap
2NEBWG		Bldg 33 Northeast stairwell window glaze
1NESWG		Bldg 33 Northeast stairwell window glaze
1WG1		Bldg 33 Window Glaze
1WG2		Bldg 33 Window Glaze
1WG3		Bldg 33 Window Glaze
1WG4		Bldg 33 Window Glaze
1WG5		Bldg 33 Window Glaze
1WG6		Bldg 33 Window Glaze
1WG7		Bldg 33 Window Glaze
1WS1		Bldg 33 Window sill
1WS2		Bldg 33 Window sill
1WS3		Bldg 33 Window sill

[Signature] 2/19/2016 / 1300
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[Signature] 2-23-16
Received by Date/Time

Relinquished by Date/Time

Received by Date/Time

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9384

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11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: Key Engineering

Job ID: 2057019 - 33

#Samples: 49 Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
1W54	2/12/2016	Bldg 33 Window sill
BR01	↓	Bldg 33 Bathroom Roof Tar Paper
BRPW		Bldg 33 Bathroom Pipe Wrap
1LPW		Bldg 33 Large Pipe Wrap
3CT		
Extra -		
Received		

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Milwaukee, WI 53226
(800) 771-9820 (414) 771-0855
Fax: (414) 771-6570

BULK ASBESTOS ANALYTICAL REPORT
Utilizing PLM and Dispersion Stain Technique

Customer: KEY Engineering Group LTD
735 North Water Street
Suite 150
Milwaukee , WI 53202

Report #: 143746
Received: 23-Feb-2016
Analyzed: 29-Feb-2016

Job ID: 2505019-34

Sample ID	% Asbestos	Non-Asbestos		Color	Texture
		Fibrous Components	Non-Fibrous Components		
3WG1	<1% Chrysotile		100%	Gray	Compact
3WG2	None Detected		100%	White	Compact
3WG3	None Detected		100%	White	Compact
3WG4	None Detected		100%	Off-White	Compact
3WG5	<1% Chrysotile		100%	Off-White	Compact
3WS01	None Detected		100%	Gray	Compact
3WS02	None Detected		100%	Gray	Compact
3TP	None Detected	50% Cellulose	50%	Black	Resinous
2WG1	None Detected		100%	White	Compact
2WG2	None Detected		100%	Off-White	Compact
2WG3	None Detected		100%	Off-White	Compact
2WG4	None Detected		100%	Off-White	Compact
2WG5	None Detected		100%	Gray	Compact
2WS1	None Detected		100%	Gray	Compact
2WS2	None Detected		100%	Gray	Compact
1WG1	None Detected		100%	Off-White	Compact
1WG2	None Detected		100%	Gray	Compact
1WG3	None Detected		100%	Off-White	Compact
1WG4	<1% Chrysotile		100%	Gray	Compact
1WG5	None Detected		100%	Off-White	Compact
1WS1	None Detected		100%	Gray	Compact
1PW	None Detected	5% Fibrous Glass 80% Cellulose	15%	Multi- Colored	Compressed

Sample ID	% Asbestos	Non-Asbestos Fibrous Components	Non-Fibrous Components	Color	Texture
2FT	None Detected		100%	Beige	Floortile
2FT II	None Detected		100%	Yellow	Mastic

Analyzed By: Arthur Warneke III

Test method: EPA/600/R-93/116 and EPA/600/M4-82-020. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of MICRO ANALYTICAL, INC.

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11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: Key Engineering

Job ID: 2505019 - 39

#Samples: 22

Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
3WG1	2/17/2016	Bldg 34 Window Glaze
3WG2		Bldg 34 Window Glaze
3WG3		Bldg 34 Window Glaze
3WG4		Bldg 34 Window Glaze
3WG5		Bldg 34 Window Glaze
3WS01		Bldg 34 Window Sill
3WS02		Bldg 34 Window Sill
3TP		Bldg 34 North wall from top paper
2WG1		Bldg 34 Window Glaze
2WG2		Bldg 34 Window Glaze
2WG3		Bldg 34 Window Glaze
2WG4		Bldg 34 Window Glaze
2WG5		Bldg 34 Window Glaze
2WS1		Bldg 34 Window Sill
2WS2		Bldg 34 Window Sill

Relinquished by Date/Time

Received by Date/Time

Relinquished by Date/Time

Received by Date/Time

Email: _____ Phone: _____

Fax: _____ Notes: _____

382

Micro Analytical, Inc.
11521 W. North Ave.
Wauwatosa, WI 53226
P (414) 771-0855 F (414) 771-6570

Client: Key Engineering

Job ID: 2505019-34

#Samples: 22 Type: PCM PLM TEM LEAD (circle one)

Sample #	Date Collected	Location/Remarks
1 WG1	2/17/2016	Bldg 34 Window Glaze
1 WG2		Bldg 34 Window Glaze
1 WG3		Bldg 34 Window Glaze
1 WG4		Bldg 34 Window Glaze
1 WG5		Bldg 34 Window Glaze
1 WS1		Bldg 34 Window Sill
1 PW		Bldg 34 Pipe Wrap
15 RWG		Bldg 11 RW
2 FT		
Extra		
Receive a		

Relinquished by Date/Time 2/19/2016 / 1300 Received by Date/Time

Relinquished by Date/Time Received by Date/Time

Email: Phone:

Fax: Notes:

MICRO ANALYTICAL, INC.

11521 West North Avenue
Milwaukee, WI 53226
(800) 771-9820 (414) 771-0855
Fax: (414) 771-6570

BULK ASBESTOS ANALYTICAL REPORT
Utilizing PLM and Dispersion Stain Technique

Customer: KEY Engineering Group LTD
735 North Water Street
Suite 150
Milwaukee , WI 53202

Report #: 143747
Received: 23-Feb-2016
Analyzed: 29-Feb-2016

Job ID: 2505019

Sample ID	% Asbestos	Non-Asbestos	Non-Fibrous	Color	Texture
		Fibrous Components	Components		
5PWG03	None Detected	<1% Silicate	100%	Gray	Compact

Analyzed By: Arthur Warneke III

Test method: EPA/600/R-93/116 and EPA/600/M4-82-020. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of MICRO ANALYTICAL, INC.

61

Client: Key Engineering

Job ID: 2505299

#Samples: 1

Type: PCM PLM TEM LEAD (circle one)

[illegible]

SMILE 2/23/64

Relinquished by Date/Time

Chagata 2-23-16

Received by Date/Time

Relinquished by Date/Time

Received by Date/Time

Email: _____ **Phone:** _____

Fax: _____ **Notes:**

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11521 West North Avenue
Milwaukee, WI 53226
(800) 771-9820 (414) 771-0855
Fax: (414) 771-6570

BULK ASBESTOS ANALYTICAL REPORT
Utilizing PLM and Dispersion Stain Technique

Customer: KEY Engineering Group LTD
735 North Water Street
Suite 150
Milwaukee , WI 53202

Report #: 143966
Received: 04-Mar-2016
Analyzed: 08-Mar-2016

Job ID: 2505019-33

Sample ID	% Asbestos	Non-Asbestos		Color	Texture
		Fibrous Components	Non-Fibrous Components		
3LC	None Detected		100%	Gray	Compact

Analyzed By: Kevin Hachey

Test method: EPA/600/R-93/116 and EPA/600/M4-82-020. Quantitation is done by Calibrated Visual Estimation which has an accepted Relative Percent Difference of 35. This report may not be used to claim product endorsement by NVLAP or any agency of the U.S. Government. This test report relates only to the items tested and shall not be reproduced except in full, without the written approval of MICRO ANALYTICAL, INC.

1571

Type: PCM PLM TEM LEAD (circle one)

Fax: _____ Notes: _____

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Milwaukee, WI 53226
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Fax: (414) 771-6570

BULK POINTCOUNT ANALYTICAL REPORT
Utilizing PLM and Dispersion Staining

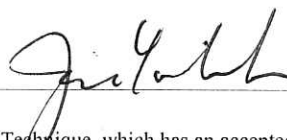
Customer: KEY Engineering Group LTD
735 North Water Street
Suite 150
Milwaukee, WI 53202

Report #: 144112
Received: 15-Mar-2016
Analyzed: 22-Mar-2016

Job ID: 2505019-11

Sample ID	% Asbestos	Asbestos Type	Color	Description
1SESWG	<0.25	Chrysotile	Gray	Compact
1GBM	2.25	Chrysotile	Beige	Compact
3WG01	<0.25	Chrysotile	Tan	Compact
3WG05	<0.25	Chrysotile	Gray	Compact
3WG06	<0.25	Chrysotile	Gray	Compact
3WG07	<0.25	Chrysotile	Gray	Compact
OWG01	0.25	Chrysotile	Off-White	Compact
OWG02	0.5	Chrysotile	Beige	Compact
OWG03	<0.25	Chrysotile	Off-White	Compact

Analyzed By: Jon Yakish



Test method: EPA/600/R-93/116. Quantitation is done by Point Count Technique, which has an accepted Relative Percent Difference of 35.
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Fax: (414) 771-6570

BULK POINTCOUNT ANALYTICAL REPORT
Utilizing PLM and Dispersion Staining

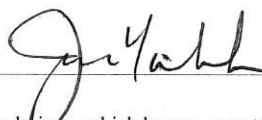
Customer: KEY Engineering Group LTD
735 North Water Street
Suite 150
Milwaukee, WI 53202

Report #: 144111
Received: 15-Mar-2016
Analyzed: 22-Mar-2016

Job ID: 2505019-34

Sample ID	% Asbestos	Asbestos Type	Color	Description
3WG1	<0.25	Chrysotile	Gray	Compact
3WG5	<0.25	Chrysotile	Off-White	Compact
1WG4	0.25	Chrysotile	Gray	Compact

Analyzed By: Jon Yakish



Test method: EPA/600/R-93/116. Quantitation is done by Point Count Technique, which has an accepted Relative Percent Difference of 35.
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